ANCHOR QEA

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Date: August 18, 2010

Project: San Jacinto River Waste Pits Superfund Site
Project #090557-01

Subject: Draft Meeting Minutes – Clarifications to the July 28, 2010, Decision Document for the Project TCRA held Wednesday, August 11, 2010, in the EPA Offices in Dallas, TX

Participants:		
Valmichael Leos	EPA	Leos.valmichael@epamail.epa.gov
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* Participated via phone		

DISCUSSION SUMMARY

Representatives from the EPA, MIMC, and International Paper met at the EPA offices in Dallas, Texas to discuss and clarify the Decision Document to the Time Critical Removal Action for the San Jacinto River Waste Pits Superfund Site. From the attached agenda, the goals of this meeting were to:

- Using a 100-year return period design flow event to determine armoring sizes for the proposed cover.
- To gain a better understanding of the comments related to the above issue and the long-term objectives for the Site, so that the design carried forward in the removal action work plan sufficiently addresses agency and respondent concerns and does not limit the NTCRA or RI/FS alternatives.
- Agency clarification of concerns related to 10-year vs. 100-year design flow events.
- Discussion of differences between a 100-year flow event vs. 100-year stage event related to a tropical storm.
- Construction implementability issues associated with 10-year and 100-year design flow events.

Decision Document

The decision memorandum was discussed; specifically what storm event should be used for the TCRA design, a flood flow event, or a tropical event. Anchor QEA revisited the design parameters for the sediment cover, discussing the probability and recurrence of the flood and tropical events, the ensuing flows, and erosive forces. The presentation culminated in a table to discuss the differences between the 10- and 100-year flow events (see attachment C for a copy of the presentation). At the end of this discussion, the EPA requested that Anchor QEA provide a copy of the presentation and backup for their consideration. A final clarification will be provided by the end of the week.

Discussed Contractor Selection Process

The three phased contractor selection process is almost complete. Cost and pricing data have been used to update the costs used in the presentation today. Final selection will be made in the ensuing weeks, as the project moves toward construction.

TxDOT Right of Way Environmental Sampling and Other Efforts

The status of this event was discussed. Sampling is ongoing this week; completion is expected by Thursday; and preliminary test results should be available in two weeks to coordinate a construction easement with the agency. Other future efforts discussed included floodplain management studies and plans to comply with the intent of those regulatory and management programs.

Public Awareness

Beverly Negri from the EPA provided an update of ongoing public awareness activities to advise the public of the potential human health risks associated with the Site. Ongoing activities include contacting the WIC centers and Pilot clubs in Baytown, Highland Park, and other surrounding communities.

ACTION ITEMS

- Anchor QEA to provide a copy of the presentation and back materials to EPA.
- The EPA to provide clarification on the design storm event.
- The EPA and Anchor QEA scheduled a follow-up call to discuss additional information exchange/comments during the following week if needed.

Attachment A – Meeting Agenda
Attachment B – Sign in Sheet
Attachment C – Meeting Presentation Slides 1 to 9

Attachment A

Draft Meeting Agenda

San Jacinto Waste Pits Superfund Site TCRA Decision Document

Wednesday, August 11, 2010

EPA Region 6 Offices, Dallas, Texas

Call in Number: 866-751-5725, *3602383*

Purpose:

To discuss the following key issue raised in the decision document provided by USEPA:

- Using a 100 year return period design flow event to determine armoring sizes for the proposed cover

Meeting Objective:

To gain a better understanding of the comments related to the above issue and the long-term objectives for the Site, so that the design carried forward in the removal action work plan sufficiently addresses agency and respondent concerns and does not limit the NTCRA or RI/FS alternatives.

Primary Discussion Topics

- Agency clarification of concerns related to 10 year vs. 100 year design flow events
- Discussion of differences between a 100 year flow event vs. 100 year stage event related to a tropical storm
- Construction implementability issues associated with 10 year and 100 year design flow events
- Schedule and analysis of other potential technologies in Alternative 3

Attachment B

August 11, 2010 EPA Meeting with San Jacinto PRP Group Regarding Time Critical Removal

Name	Organization	Contact Information
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AL ROSE	Counsel for MIMC	on phone
JOHN CERMAK	Counsel for IP	on phone
JOHN VOSBEIGIAN		on phone
Valmichael Leos	U.S. EPA	214-665-2283
Francis Chin	Counsel for MIMC	on phone

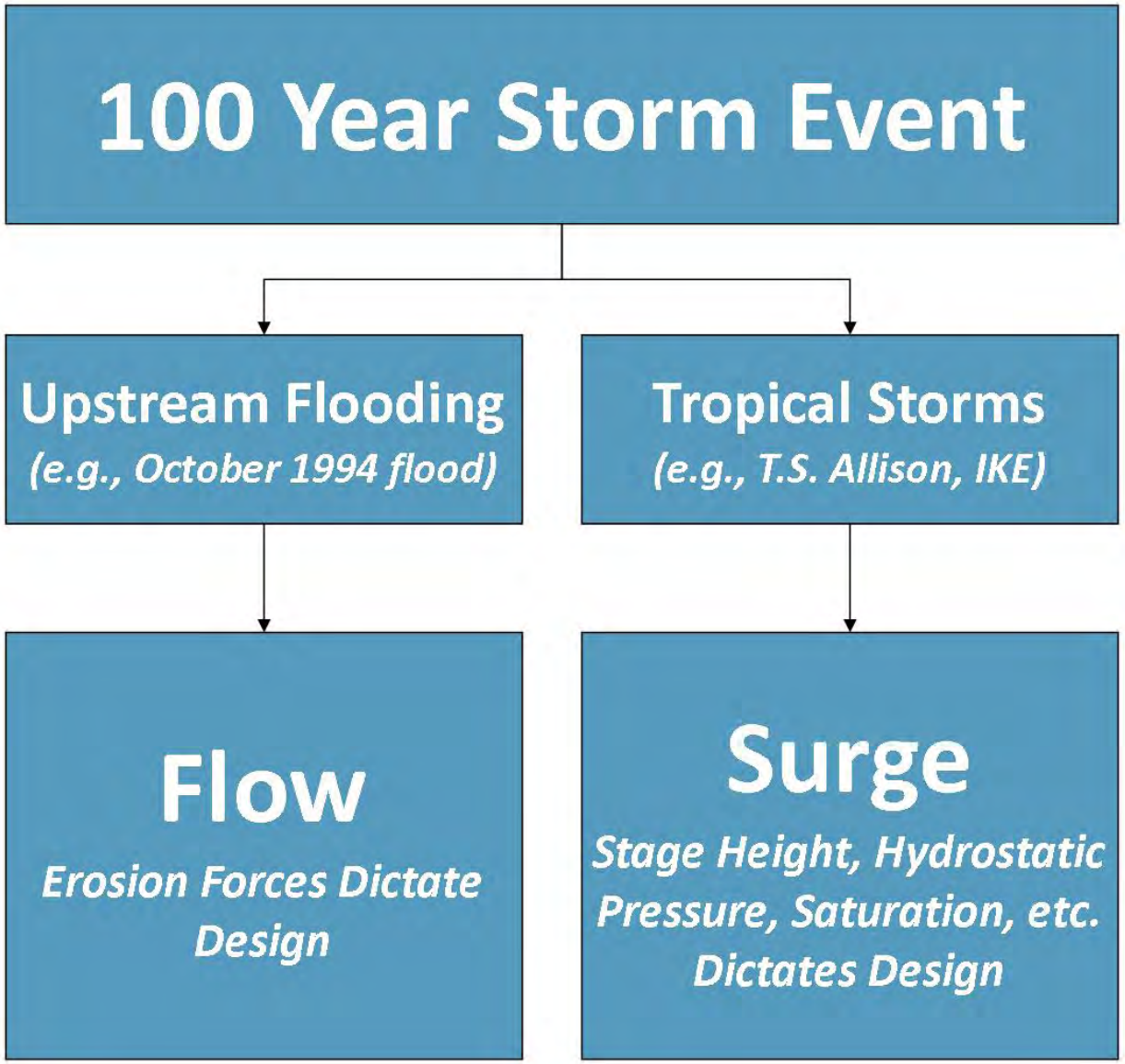

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Figure #
Figure Title
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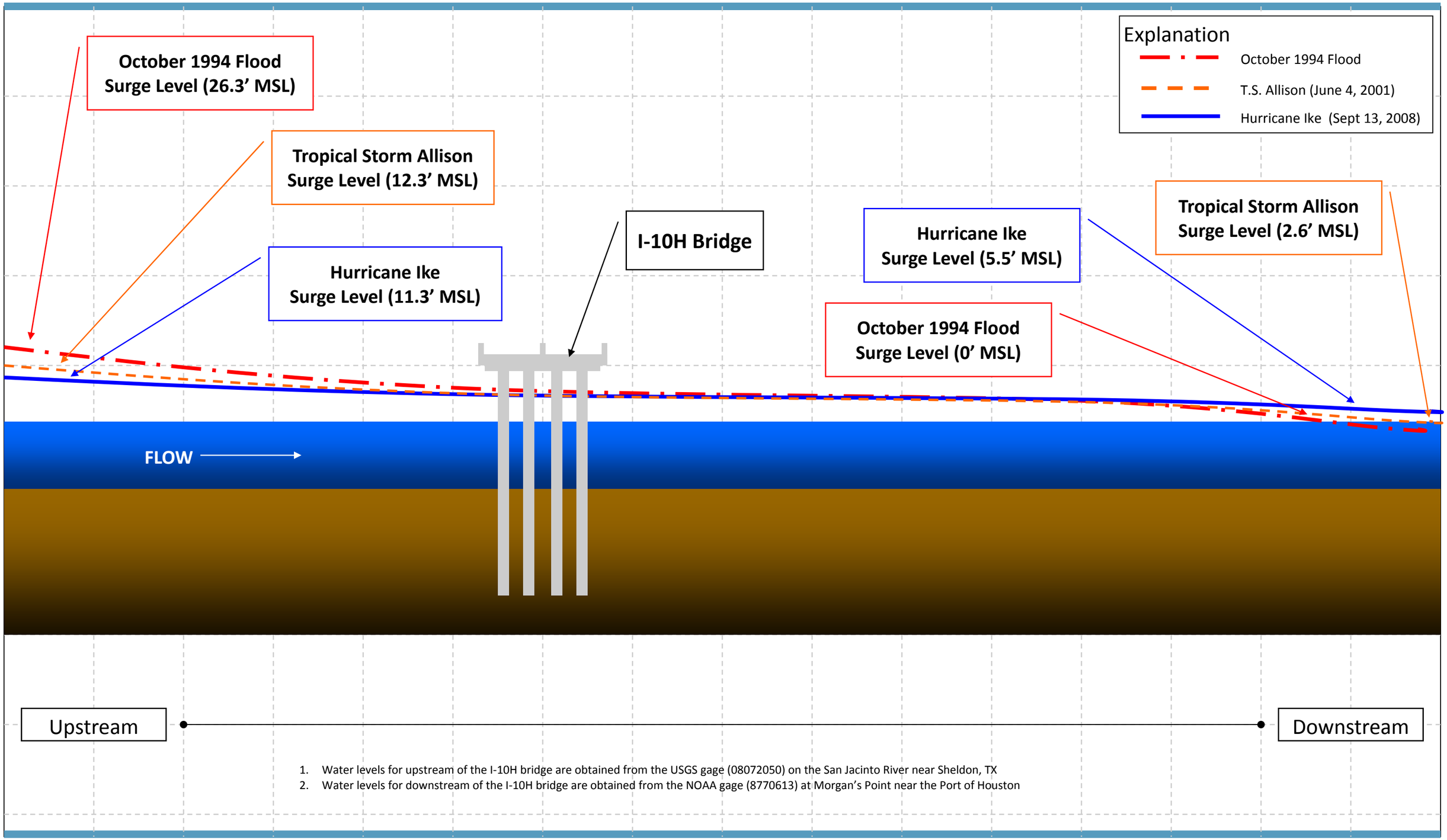
Project/Client Name



1. Water levels for upstream of the I-10H bridge are obtained from the USGS gage (08072050) on the San Jacinto River near Sheldon, TX
2. Water levels for downstream of the I-10H bridge are obtained from the NOAA gage (8770613) at Morgan’s Point near the Port of Houston

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Figure 1
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Project/Client Name

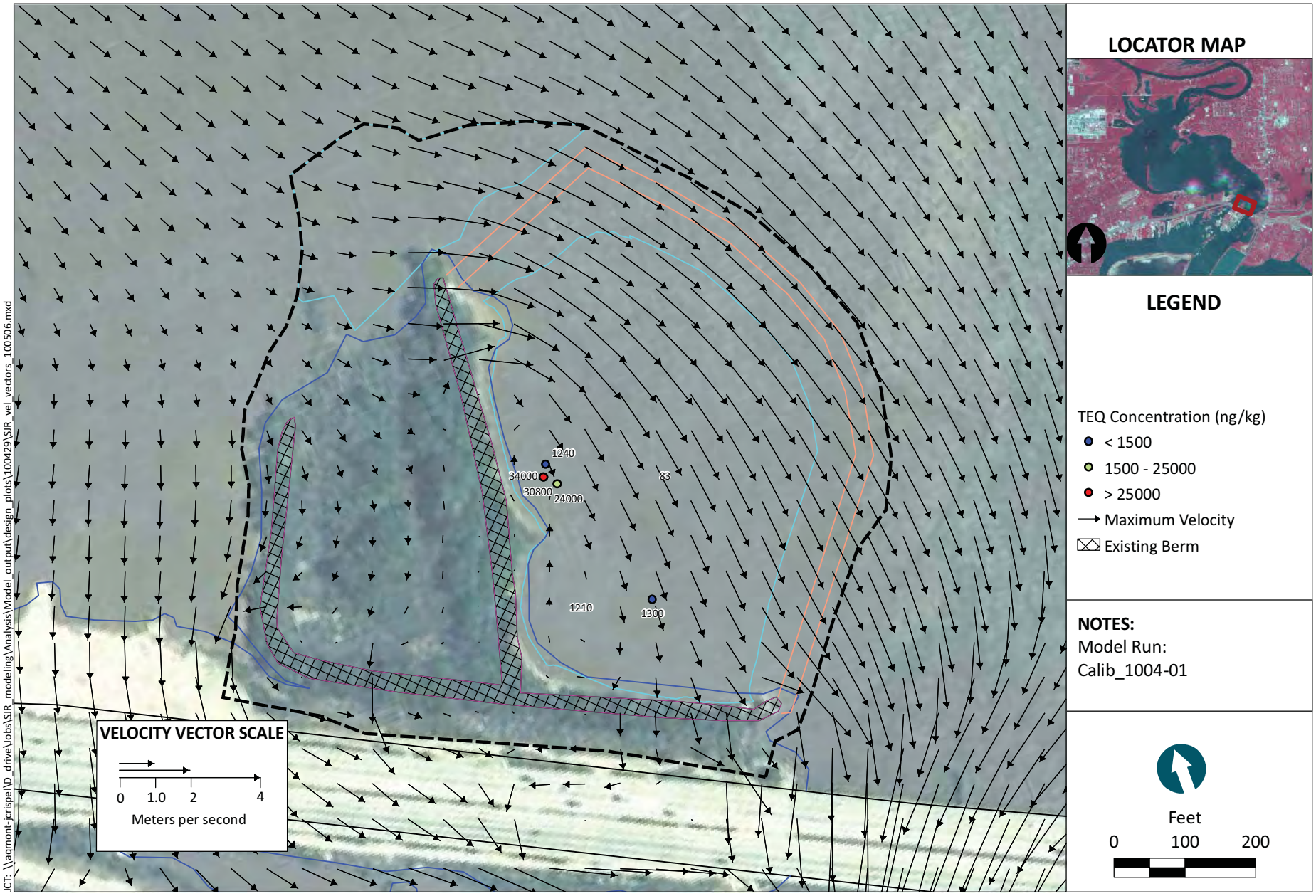

Figure --

Maximum Velocity- Existing Conditions
10-year Flow (126,000 cfs), Lower-Bound Stage Height
San Jacinto River Study Area

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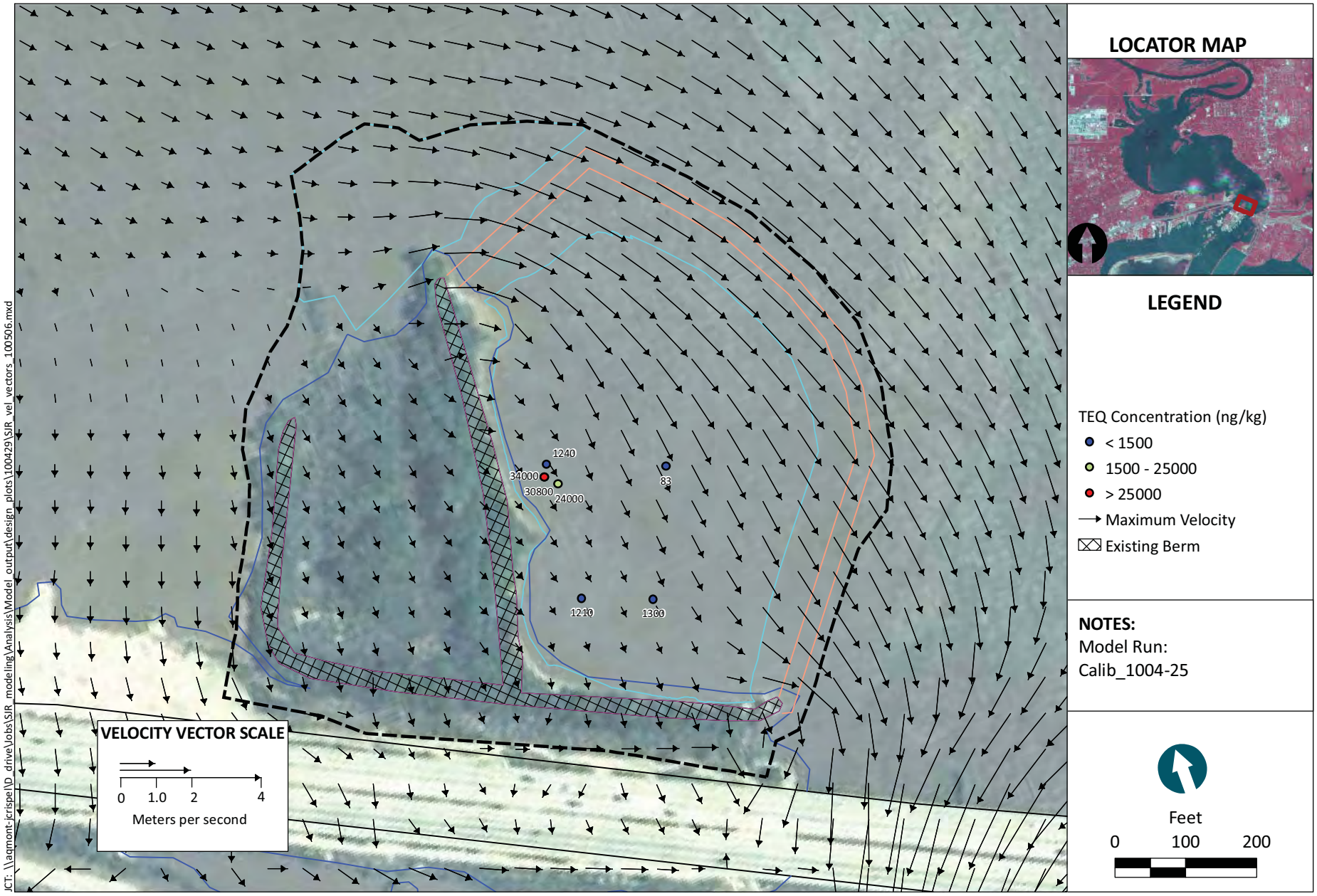

Figure --

Maximum Velocity- Existing Conditions
Hurricane Ike Flow and Stage (September 8 - 20, 2008)
San Jacinto River Study Area

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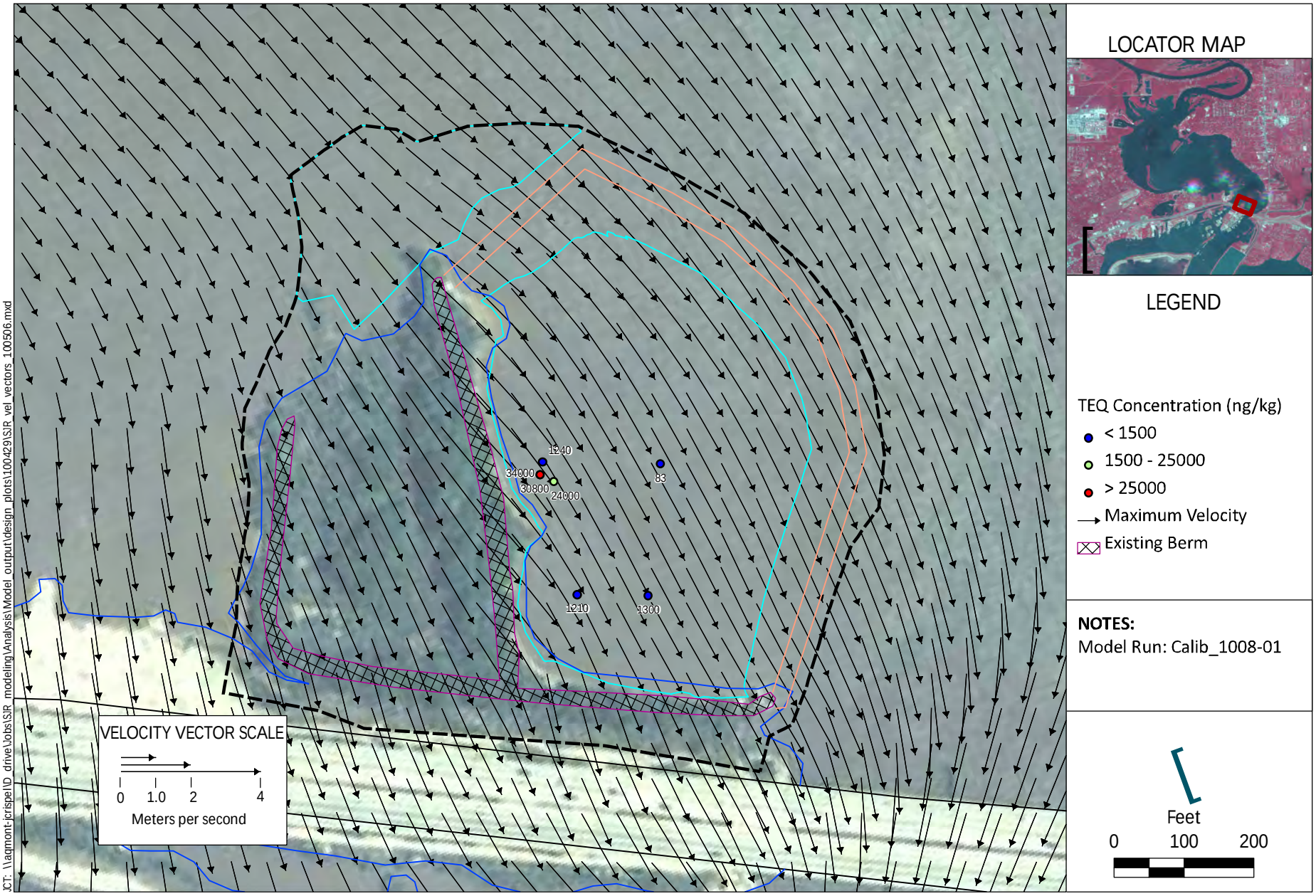

Figure 1

Maximum Velocity - Existing Conditions
100-year Flow (372,000 cfs), Lower-Bound Stage Height
San Jacinto River Study Area

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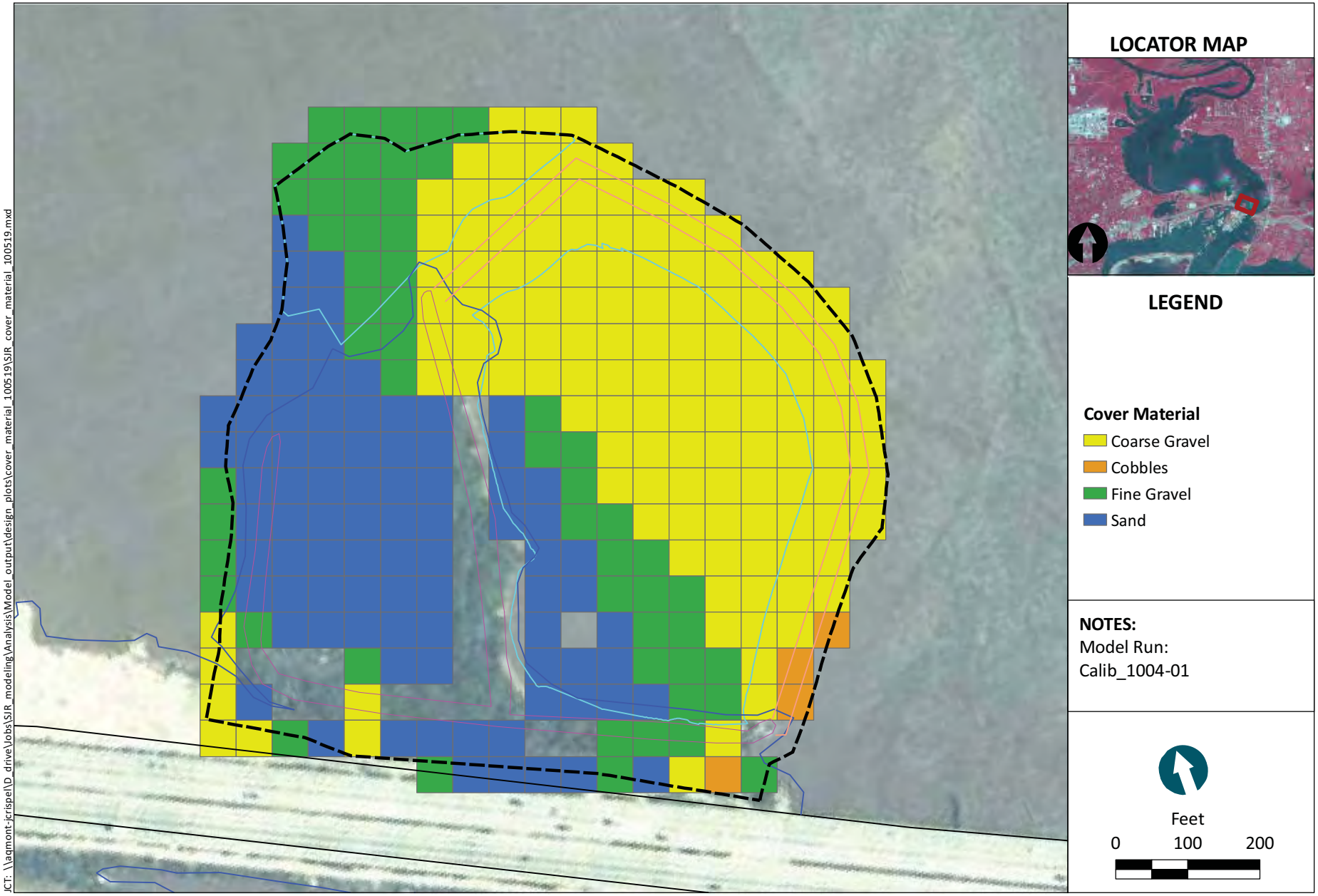

Figure #

Proposed Cover Material - Existing Conditions
10-year Flow (126,000 cfs), Lower-Bound Stage Height
San Jacinto River Study Area

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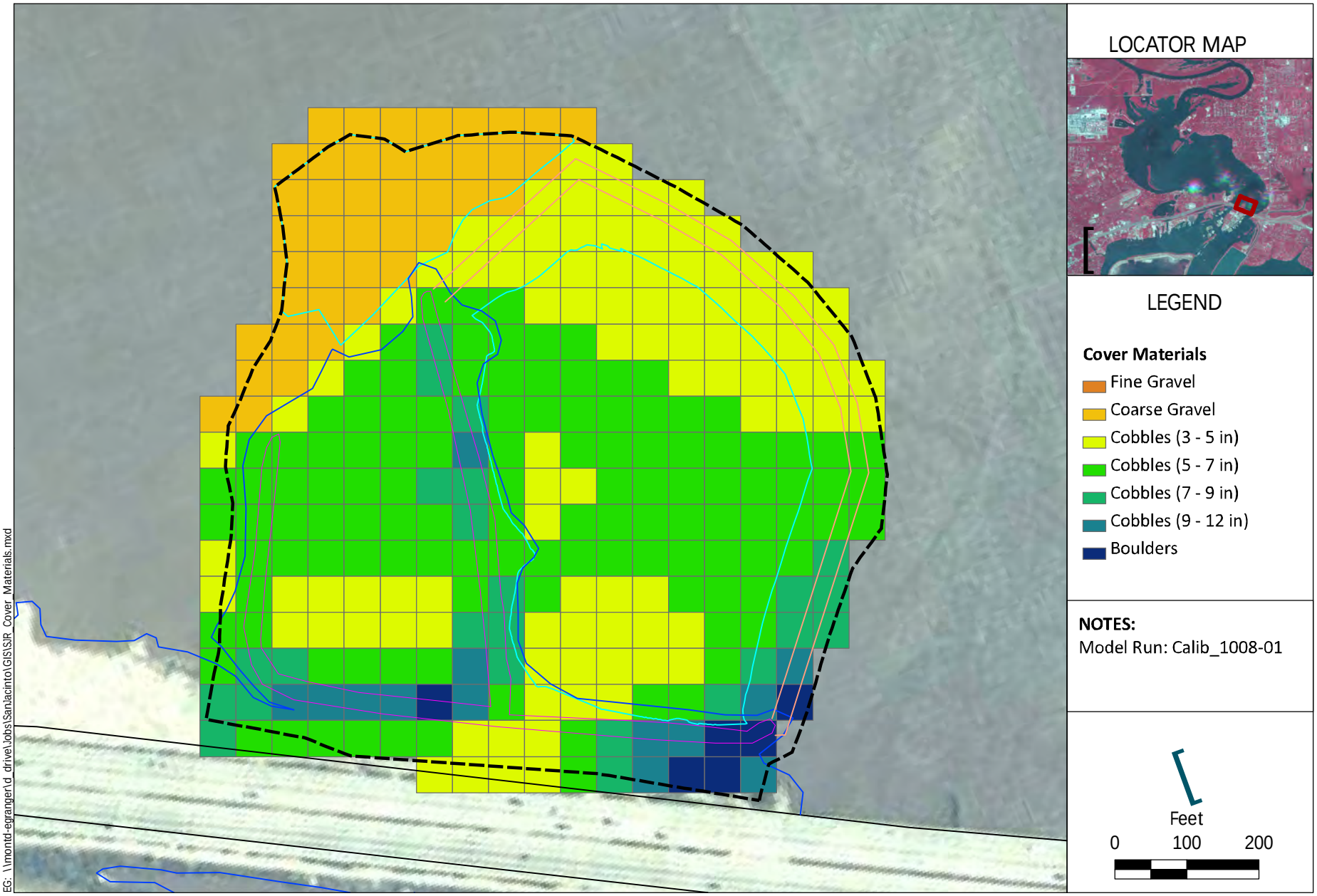

Figure 6

Proposed Cover Material - SF = 1.5 and Density = 145 pcf
100-year Flow (372,000 cfs), Lower-Bound Stage Height
San Jacinto River Study Area

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Changed Item	10-year Flow Design	100-year Flow Design
Cap Gradation D^{50} Inches	2-inch	4 to 8-inch
Cap Thickness Inches	6-inch (min)	8 to 16-inch (min)
Cap Surface – Square Feet	314,000 (7.2 acres)	452,000 (10.4)
Cap Volume – Cubic Yards (Tons)	13,100 (21,000 Tons)	25,500 (41,600 Tons)
Placement Options/Equipment	Hydraulic (pump) and Mechanical	Mechanical
Stockpile/Lay Down Area		Increased 50%
Compatibility with Other Remedial Options	• Removal, CDF or insitu containment are all viable remedies	• Strongly favors insitu containment over removal or CDF • Move Aggregate to Build CDF? • Difficulty for Total Removal.
Cost	$3.7 to 4.2 mil	$6.7 to 7.7 mil
Construction Days	60 to 80	150 to 170
Removal Action Work Plan (days)	30	60